

MSc Industrial Engineering and Management Electives 2023-2024

In principle all courses from other **engineering** MSc programmes can be taken as electives, provided there is no overlap with other courses (always check OSIRIS for possible prerequisites and the correct quartile); Check the overview of Additional Specialisations for more example courses to fill your elective space.

Not Allowed as elective:

- 191531830 Stochastic Models in Production Logistics
- 191124720 Design of Production and Inventory Systems

Not allowed for students with a BSc IEM background (but mandatory for premaster students):

- 191530881 Stochastic Models for Operations Management

At most one Business Administration or Health Science course is allowed, with a motivation provided to the specialisation coordinator. Exceptions to this rule, and therefore courses that are allowed (also together):

- ✓ 201600025 Finance and Healthcare purchasing (HS)
- ✓ 201600032 Quality Management in Healthcare (HS)
- ✓ 194105070 Inform.Syst f/t Fin. Services Industry (BA)
- ✓ 201600015 Strategic Technology Mgmt. & Inn (BA)

Always check the timetables! Overlap between courses cannot always be avoided.

Health Care Technology and Management (HCTM)

Recommended Electives for HCTM			IEM courses as elective			Other example electives		
191506103	Statistics & Probability (AM)	1	201700089	Circular sustainable business development	1	201400277	Enterprise Architecture (BIT)	1
201600025	Finance and Healthcare purchasing (HS)	2	191860651	Micro economics	1	201600070	Machine Learning 1 (IT)	1
201600032	Quality Management in Healthcare (HS)	2	191820160	Purchasing Management	1	202300201	Data Science Additional Topics (CS)	2,3
194121020	Optimization of Health care processes	3	201800009	Advanced inventory management	2	202000027	Enterprise Security (BIT)	2
201600015	Strategic Technology Mgmt. & Inn (BA)	3	201800008	After-sales service logistics	2	201600071	Machine Learning 2 (IT)	2
			201400244	Cost management and engineering	2	192360021	ICT Management (BIT)	3
			202001552	Human factors and organization design	2	192340101	Implementation of IT in Organizations (BIT)	3
			191515101	Introduction to Risk Theory	2	202200345	Applications of AI in Business (BIT)	4
			201300060	Mathematical finance	2	191127520	Lean Six Sigma Green Belt (ME)	4
			202200263	Optimisation of sustainable energy systems	2			
			201200138	Special topics in financial engineering	2			
			191852630	Reliability engineering and maintenance mgmt	3			
			191860181	Risk management	3			
			201300062	Structured products	3			
			201800010	Transportation and logistics management	3			
			201100162	Applied Financial Engineering	4			
			192360501	E-health strategies	4			
			201000202	Management control for financial institutions	4			
			202300223	New production concepts	4			
			201800007	Planning & scheduling	4			
			202100233	Reinforcement learning with applications	4			
			191820120	Warehousing	4			